



UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
25063 CENTER RIDGE ROAD
WESTLAKE, OH 44145-4114

March 2, 2017

MEMORANDUM

SUBJECT: Clean Air Act Monitoring, American Electric Power, Cheshire, Ohio

FROM: Katharina Bellairs, Environmental Engineer (ME-W) *KB*

THRU: Mark Conti, Lead Environmental Engineer (ME-W) *MEC*

TO: Air Enforcement and Compliance Assurance Branch, IL/IN Section (AE-18J)
Nathan Frank, Section Chief

On October 28, 2016, I performed off-site visible emission readings under the Clean Air Act at American Electric Power, Gavin Station, Cheshire, Ohio, at Ethan Chatfield's request. My findings are attached.

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
25063 CENTER RIDGE ROAD
WESTLAKE, OHIO 44145**

DATE: March 2, 2017

SUBJECT: CLEAN AIR ACT OFF-SITE MONITORING EVALUTION REPORT
American Electric Power – Gavin Generating Station

FROM: Katharina Bellairs, Environmental Engineer
OECA – Cleveland Office

THRU: Mark Conti, Lead Environmental Engineer
OECA – Cleveland Office

TO: Nathan Frank, Section Chief
Air & Radiation Division, AECAB (IL/IN)

BASIC INFORMATION

Facility Name: American Electric Power – Gavin Generating Station

Facility Location: 4 7397 Ohio Seven, Cheshire, Ohio 45620

Date of Inspection: October 28, 2016

Lead Monitor: Katharina Bellairs, Environmental Engineer

Purpose of Monitoring Evaluation: Perform Method 9 and Alternative Method 082 Opacity Readings

Facility Type: Electric Generating Station

Arrival Time: approximately 1:50 p.m. EST

Departure Time: approximately 2:50 p.m. EST

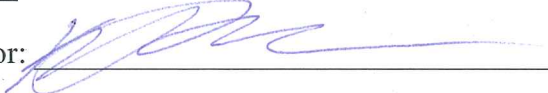
MONITORING INFORMATION

Field Measurements: were taken during this inspection.

I arrived in Robinson, West Virginia, across the Ohio River from the Gavin Power Plant, and stopped near the intersection of Airport Road and Ohio River Road. I performed Method 9 visible emissions readings from 2:02 p.m. to 2:32 p.m. EST and Method 082 alternative visible

emission readings with Virtual Technology's opacity camera from 1:59 p.m. EST to 2:40 p.m. EST. My reading location was at 38.913728, -82.113848.

SIGNATURES

Lead Monitor:  Date: 3/2/17

Lead Environmental Engineer: Mark Conti Date: 3-2-2017

APPENDICES AND ATTACHMENTS

Method 9 Visible Opacity Reading Sheets
Virtual Technology Method 082 Report

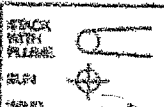
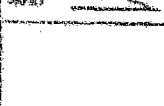

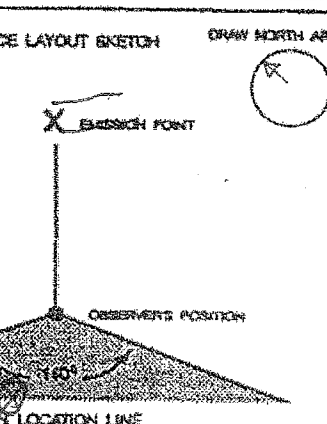

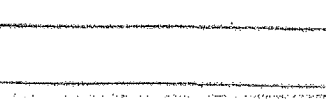
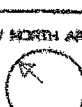
VISIBLE EMISSION OBSERVATION FORM

COMPANY NAME AEP Garvin		
LOCATION 7397 OH-7		
CITY Cheshire		
STATE OH	ZIP 45620	
PROCESS EQUIPMENT Eastern Stack	OPERATING MODE operating	
CONTROL EQUIPMENT	OPERATING MODE 0	

DESCRIBE EMISSION POINT point in plume after steam	
HEIGHT ABOVE GROUND LEVEL 1156 ft 2400 ft	HEIGHT RELATIVE TO OBSERVER 239.5 ft 239.5 ft
DISTANCE FROM OBSERVER 1296 ft	DIRECTION FROM OBSERVER 129.1 ft
START 1296 ft END 7296 ft	START 357° END 357°
VERTICAL ANGLE TO PLUME 18°	HORIZONTAL ANGLE TO PLUME 18°

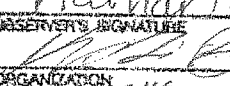
DESCRIBE EMISSIONS gray smoke after gray smoke after	
START water droplet plume END water droplet plume	
EMISSION COLOR gray	
START gray END gray	ATTACHED <input checked="" type="checkbox"/> DETACHED <input type="checkbox"/> NA <input type="checkbox"/>
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED highest non-folding	
START folding point END highest non-folding	POINT IN PLUME

DESCRIBE PLUME BACKGROUND	
START blue sky END blue sky	SKY CONDITIONS
BACKGROUND COLOR blue	START clear END clear
WIND SPEED 4 mph	WIND DIRECTION NW
AMBIENT TEMP 52°F	WET BULB TEMP 39°F
END 52°F	RH percent 61%

STACK WITH PLUME  SUN  WIND 	SOURCE LAYOUT SKETCH  OBSERVER'S POSITION  SUN LOCATION LINE 	DRAW NORTH ARROW 
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ADDITIONAL INFORMATION

OBSERVATION DATE		START TIME				END TIME
10/28/16		2:02 pm				2:32 pm
MIN	SEC	0	15	30	45	COMMENTS
1	75	75	75	75	75	
2	75	75	75	75	75	
3	75	75	75	75	75	
4	60	45	65	55	55	
5	60	65	70	65	65	
6	70	70	65	60	60	
7	60	60	65	45	45	
8	45	50	45	45	45	
9	45	45	50	40	40	
10	50	60	40	45	45	
11	50	45	45	30	30	
12	50	40	40	60	60	
13	55	55	45	50	50	
14	55	55	45	50	50	
15	50	45	40	35	35	
16	45	40	45	55	55	
17	60	55	55	45	45	
18	45	50	50	45	45	
19	45	40	45	35	35	
20	40	40	45	40	40	
21	50	55	60	55	55	
22	55	55	50	60	60	
23	55	55	50	40	40	
24	40	45	50	50	50	
25	45	40	40	35	35	
26	35	40	30	40	40	
27	40	45	60	70	70	
28	60	60	45	50	50	
29	50	65	60	55	55	
30	50	60	55	40	40	

OBSERVER'S NAME (PRINT) Natharina Rollins	DATE 10/28/16
OBSERVER'S SIGNATURE 	DATE 10/28/16
ORGANIZATION Whitlow Enterprises	US EPA
CERTIFIED BY Whitlow Enterprises	DATE 10/13/16

CONTINUED ON VEO FORM NUMBER

VISIBLE EMISSION OBSERVATION FORM

Method Used Method 9		
Equipment Owner N/A		
Facility Name AEP Gavin Power Plant		
EO Street Address 7397 OH-7		
EO City Cheshire	EO State OH	EO Zip 45620

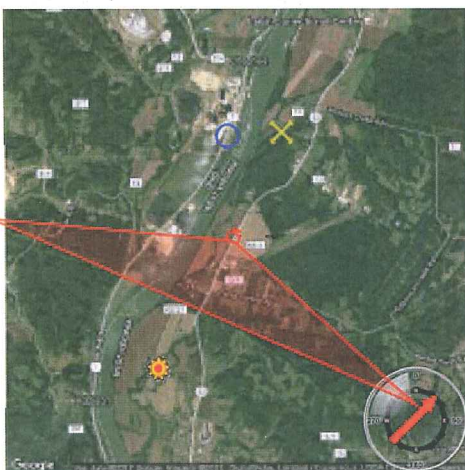
Process N/A	Unit N/A	Operating Mode N/A
Control Equipment N/A		Operating Mode N/A

Describe Emission Point gray emissions after the condensed water plume from middle stack			
Height of Emiss. Pt. Start 2374.47 End Same		Height of Emiss. Pt. Rel. to Observer Start 2370.47 End Same	
Distance to Emiss. Pt. Start 7295.56 End Same		Direction to Emiss. Pt. (Degrees) Start 356.56 End Same	

Vertical Angle to Obs. Pt. Start 18 End Same		Direction to Obs. Pt. Start 23.67 End Same	
Distance and Direction to Observation Point from Emission Point Start 3732.72 / 86.63 End Same			

Describe Emissions gray looping plume after condensed water plume		End Same	
Emission Color Start	Water Droplet Plume Attached: (X) Detached: () N/A: ()	End	

Describe Plume Background Start blue sky End Same			
Background Color Start blue End Same		Sky Conditions Start Clear End Same	
Wind Speed Start 4 End Same		Wind Direction Start NW End Same	
Ambient Temp. Start 52 End Same	Wet Bulb Temp. Start 39 End Same	RH Percent Start 61 End Same	



Longitude 082.06.50.612 W	Latitude 38.54.49.201 N	Declination
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Notes Contact Katharina Bellairs, 4402501713, bellairs.katharina@epa.gov

Form Number		Page	Of
Continued on VEO Form Number			

Observation Date 10/28/2016	Time Zone EST	Start Time 13:59:24	End Time 14:40:23
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					Comments
1	50	45	45	50	
2	45	45	40	40	
3	45	40	40	45	Avg. Opacity = 44.167
4	45	45	40	45	
5	45	45	50	40	
6	45	45	40	45	
7	45	45	40	40	
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28	45	45	40	45	
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31	45	45	45	40	
32	45	40	45	45	

Observers Name (Print) Katharina Bellairs	
Observers Signature Katharina Bellairs	Date 12/22/2016
Organization USEPA Region 5	
Certified By Katharina Bellairs	Date 2/27/2017

	0	15	30	45	Comments
33	40	45	45	45	
34	45	45	45	40	
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36	40	45	45	45	
37	45	40	40	40	
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Source

Name: AEP Gavin Power Plant
Address: 7397 OH-7
City: Cheshire
State: OH
Zip: 45620
Phone:
Local ID:

Regulatory

Permit ID:
Condition:
Regulatory Reference:

Process

Process: N/A
Unit: N/A
Operating Mode: N/A

Complaint

Name:
Address:
City:
State: NA
Zip:

Equipment

Name: N/A

Type of Inspection

Type of Inspection: Surveillance

Sun

Altitude: 32.6
Azimuth: 211.2
Data Source: Calculated

Map Information

Map Type: USGSDRG
Map Width: 32100

Analysis

Averaging Type: Manual
Method: Method 9
Number of Images: 24
Rolling High Count: 24
Seconds Between Images: 15
Who Created: DOCS II
Creation Date: 9/22/2011

Analyst Name: Pat Grieco
Affiliation: Virtual Technology LLC
Comments:









Image	Opacity	Coordinates	Date Taken	Camera Information																																	
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 IMG_1240.JPG	40	<table><tr><th colspan="4">Foreground Coordinates</th></tr><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>105</td><td>508</td><td>117</td><td>518</td></tr><tr><th colspan="4">Background Coordinates</th></tr><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>106</td><td>594</td><td>118</td><td>605</td></tr></table>	Foreground Coordinates				T	L	B	R	105	508	117	518	Background Coordinates				T	L	B	R	106	594	118	605	<table><tr><td colspan="2">Date Taken 10/28/2016 2:01:09 PM</td></tr><tr><td colspan="2">Camera Mfg/Model Canon/Canon PowerShot G15</td></tr><tr><td>Wind Direction SW</td><td>Wind Speed 9</td></tr><tr><td>Temperature 56</td><td>Rel Humidity 60</td></tr><tr><td colspan="2">Wet Bulb Temp 42</td></tr></table>	Date Taken 10/28/2016 2:01:09 PM		Camera Mfg/Model Canon/Canon PowerShot G15		Wind Direction SW	Wind Speed 9	Temperature 56	Rel Humidity 60	Wet Bulb Temp 42	
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